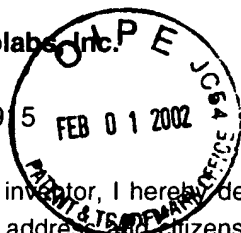


New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915

**DECLARATION
AND POWER OF ATTORNEY
Original Application**

Attorney Docket No. NEB-154



As a below named inventor, I hereby declare that:

My residence, post address and citizenship are as stated below next to my name

I believe that I am the original, first and sole inventor (in only one name is listed at 201 below) or an original, first and joint inventor (if plural names are listed at 201-203 below) of the subject matter which is claimed and which a patent is sought on the invention entitled:

Intein-Mediated Protein Ligation of Expressed Proteins

which is described and claimed in:

☐ the attached specification or ☒ the specification in Application Serial No. 09/249/543 filed 2/19/99
(for declaration not accompanying application)

And was amended on _____
if applicable

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendments referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

FOREIGN APPLICATION(S) IF ANY, FILED WITHIN 12 MONTHS PRIOR TO THE FILING DATE OF THIS APPLICATION			
COUNTRY	APPLICATION	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES NO
			YES NO
ALL FOREIGN APPLICATION(S) IF ANY, FILED MORE THAN 12 MONTHS PRIOR TO THE FILING DATE OF THIS APPLICATION			
COUNTRY	APPLICATION	(day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. 119

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (Patented, Pending, Abandoned)
08/811,492	5-Mar-97	Patented
60/102,413	30 Sep-98	Pending

DECLARATION
AND POWER OF ATTORNEY
PAGE 2 OF 3

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Gregory D. Williams
(Registration No. 30901)

SEND CORRESPONDENCE TO:

Gregory D. Williams
General Counsel
New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915

DIRECT TELEPHONE CALLS TO:

Gregory D. Williams
General Counsel
New England Biolabs, Inc.
Tele: (978) 927-5054; Ext. 292
Fax: (978) 927-1705

201	Full Name of Inventor	Last Name Evans	First Name Thomas	Middle Name C.
	Residence & Citizenship	City Somerville	State/Foreign Country Massachusetts	Citizenship USA
	Post Office Address	Post Office Address 68 Albion Street	City/State/Country Somerville, MA	Zip Code 02143
202	Full Name of Inventor	Last Name Xu	First Name Ming-Qun	Middle Name
	Residence & Citizenship	City Hamilton	State/Foreign Country Massachusetts	Citizenship USA
	Post Office Address	Post Office Address 40 Crescent Road	City/State/Country Hamilton, MA	Zip Code 01982
203	Full Name of Inventor	Last Name Chong	First Name Shaorong	Middle Name
	Residence & Citizenship	City Cambridge	State/Foreign Country Massachusetts	Citizenship USA
	Post Office Address	Post Office Address 45 Cogswell Avenue	City/State/Country Cambridge, MA	Zip Code 02138
204	Full Name of Inventor	Last Name	First Name	Middle Name
	Residence & Citizenship	City	State/Foreign Country	Citizenship
	Post Office Address	Post Office Address	City/State/Country	Zip Code
205	Full Name of Inventor	Last Name	First Name	Middle Name
	Residence & Citizenship	City	State/Foreign Country	Citizenship
	Post Office Address	Post Office Address	City/State/Country	Zip Code

DECLARATION
AND POWER OF ATTORNEY
PAGE 3 OF 3

206	Full Name of Inventor	Last Name	First Name	Middle Name
	Residence & Citizenship	City	State/Foreign Country	Citizenship
	Post Office Address	Post Office Address	City/State/Country	Zip Code
207	Full Name of Inventor	Last Name	First Name	Middle Name
	Residence & Citizenship	City	State/Foreign Country	Citizenship
	Post Office Address	Post Office Address	City/State/Country	Zip Code
208	Full Name of Inventor	Last Name	First Name	Middle Name
	Residence & Citizenship	City	State/Foreign Country	Citizenship
	Post Office Address	Post Office Address	City/State/Country	Zip Code
209	Full Name of Inventor	Last Name	First Name	Middle Name
	Residence & Citizenship	City	State/Foreign Country	Citizenship
	Post Office Address	Post Office Address	City/State/Country	Zip Code

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Date
Signature of Inventor 202	Date
Signature of Inventor 203	Date
Signature of Inventor 204	Date
Signature of Inventor 205	Date
Signature of Inventor 206	Date
Signature of Inventor 207	Date
Signature of Inventor 208	Date
Signature of Inventor 209	Date

Practitioner's Docket No. NEB-154**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**In re application of: Evans, et al.For: Intein-Mediated PRotein Ligation of Expressed Proteins

the specification of which:

(check and complete (a), (b) or (c))

- (a) ☐ is attached hereto.
- (b) ☒ was filed on 2/19/1999 as Application Serial No. 09 / 249,543
and was amended on _____ (if applicable).
- (c) ☐ was described and claimed in International Application No. _____
filed on _____ and as amended on _____ (if any).

**STATEMENT AS TO INVENTORSHIP AND
COMMON OWNERSHIP OF CLAIMS FILED IN APPLICATION**

1. Identification of Inventors of Different Claims

- (a) The subject matter of claims(s) 24 and 28 was made by
inventor(s) Shaorong Chong, Thomas C. Evans and Ming-Qun Xu
- (b) The subject matter of claims(s) 1-23, 25-27 & 29-30 was made by
inventor(s) Thomas C. Evans and Ming-Qun Xu
- (c) The subject matter of claims(s) _____ was made by
inventor(s) _____

CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10
(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- ☒ deposited with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231
37 C.F.R. 1.8(a)
- ☒ with sufficient postage as first class mail.

37 C.F.R. 1.10*
as "Express Mail Post Office to Addressee"
Mailing Label No. _____ (mandatory)

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office

Date: 1/10/02

Signature

Melissa A. Jackson

(type or print name of person certifying)

***WARNING:** Each paper or fee filed by Express Mail **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).
"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 53,442.
(Statement of Inventorship and Common Ownership of Claims in Application [6-9]—page 1 of 3)

**2. Statement as to Knowledge (or Lack of Knowledge)
by Later Inventor(s) of Subject Matter by Earlier Inventor(s)**

The last-made invention of this application is the subject matter of claim(s) 24 and 28, made by inventor(s) Shaorong Chong, Thomas C. Evans and Ming-Qun Xu

When the subject matter of the invention of claim(s) 24 and 28 was made, inventor(s) Shaorong Chong

(check applicable item)

- ☐ knew
☒ did not know

of the earlier invention of the subject matter in the other claim(s) of this application.

(if more than two sets of inventors for claimed invention are listed in the application, add a similar statement for each set of claimed inventors after the earlier)

3. Ownership of Invention of All Claims at the Time of Later Invention

At the time the later invention of claim(s) 1-30 was made, the invention described in all the claims of the application was owned by New England Biolabs, Inc.

(if more than two sets of inventors for claimed invention are listed in the application, add a similar statement for each set of claimed inventors after the earlier)

4. Identification of Person(s) Making this Statement

The person making this statement is:

(complete (a) or (b))

- (a) ☐ the inventor
(b) ☒ the owner or a person authorized to sign on behalf of the owner on the basis of
☒ an assignment
☒ recorded: Reel 9782 Frame 0913
☐ unrecorded
☐ copy attached
☐ an agreement
☐ copy attached
☐ other _____
☐ supporting papers attached

(Statement of Inventorship and Common Ownership of Claims in Application [6-9]—page 2 of 3)

**2. Statement as to Knowledge (or Lack of Knowledge)
by Later Inventor(s) of Subject Matter by Earlier Inventor(s)**

The last-made invention of this application is the subject matter of claim(s) 24 and 28, made by inventor(s) Shaorong Chong, Thomas C. Evans and Ming-Qun Xu

When the subject matter of the invention of claim(s) 24 and 28 was made, inventor(s) Thomas C. Evans and Ming-Qun Xu

(check applicable item)

- ☒ knew
☐ did not know

of the earlier invention of the subject matter in the other claim(s) of this application.

(if more than two sets of inventors for claimed invention are listed in the application, add a similar statement for each set of claimed inventors after the earlier)

3. Ownership of Invention of All Claims at the Time of Later Invention

At the time the later invention of claim(s) 1-30 was made, the invention described in all the claims of the application was owned by New England Biolabs, Inc.

(if more than two sets of inventors for claimed invention are listed in the application, add a similar statement for each set of claimed inventors after the earlier)

4. Identification of Person(s) Making this Statement

The person making this statement is:

(complete (a) or (b))

- (a) ☐ the inventor
- (b) ☒ the owner or a person authorized to sign on behalf of the owner on the basis of
- ☒ an assignment
 - ☒ recorded: Reel 9782 Frame 0913
 - ☐ unrecorded
 - ☐ copy attached
 - ☐ an agreement
 - ☐ copy attached
 - ☐ other _____
- ☐ supporting papers attached

(Statement of Invention and Common Ownership of Claims in Application [8-8]—page 2 of 3)

Signature by inventor(s)


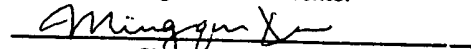

Thomas C. Evans

Ming-Qun Xu
(type name of inventor)

(type name of inventor)

Shaorong Chong

(type name of inventor)

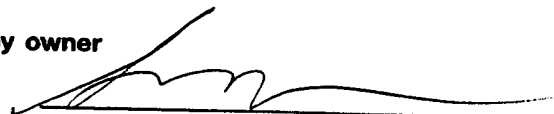

Signature of inventor
Signature of inventor
Signature of inventor

Signature by owner

Gregory D. Williams

General Counsel/Secretary
(type name of person)

Title


Signature

Practitioner's Docket No. NEB-154**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Evans, et al.

Application No.: 09 / 249,543 Group No.: 1652

Filed: February 19, 1999 Examiner: W. Moore

For: Intein-Mediated Peptide Ligation Of Expressed Proteins

Assistant Commissioner for Patents
Washington, D.C. 20231COPY OF PAPERS
ORIGINALLY FILED**ASSENT OF ASSIGNEE TO CORRECTION
AND/OR ADDITION OF INVENTOR(S)**New England Biolabs, Inc.*(type or print name of assignee)*32 Tozer RoadAddressBeverly, MA 01915**Assignment**☒ recorded on February 12, 1999Reel 9782Frame 0913☒ recorded herewith☐ A separate ☐ "ASSIGNMENT" (DOCUMENT) COVER SHEET is attached.

or

☒ FORM PTO 1595 is attached.

Assignee hereby assents to the correction of inventorship filed

☒ herewith.☐ on _____**CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. § 1.8(a))**

I hereby certify that this correspondence is, on the date shown below, being:

MAILING☒ deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.Date: 1/10/02**FACSIMILE**☐ transmitted by facsimile to the Patent and Trademark Office.Melissa A. Jackson

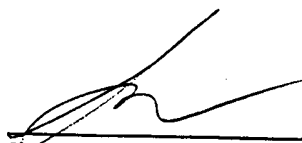
Signature

Melissa A. Jackson

(type or print name of person certifying)

ASSIGNEE STATEMENT

A "STATEMENT UNDER 37 C.F.R. § 3.73(b)" is attached.



Signature
Gregory D. Williams
General Counsel/Secretary

*(type or print name and title of person authorized to sign
on behalf of assignee)*

(Assent of Assignee to Correction and/or Addition of Inventor(s) [9-23]—page 2 of 2)